

PATENT ABSTRACTS OF JAPAN

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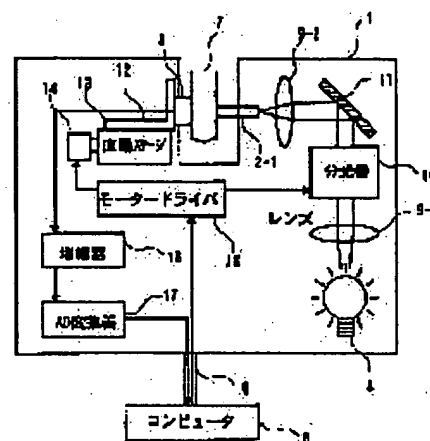
KAN MASAO

(54) NONINVASIVE MEASURING DEVICE FOR BLOOD SUGAR

(57)Abstract:

PROBLEM TO BE SOLVED: To measure blood sugar correctly noninvasively by detecting a transmitted near infrared rays of a certain wavelength that irradiates a thin and paddle-shaped part between two adjacent fingers of a subject which are held by a supporter.

SOLUTION: A flat and thin part 7 between the thumb and index finger of a subject is bound between optical fiber 2-1 and light detector 3 at first in order to measure the blood sugar. After setting the hand of the subject, pushing a key for return in the keyboard, measurement of the paddle-shaped part of the hand of the subject by near infrared rays can be started. A lamp that emanates near infrared rays of 1500-2500 nm is used as a lighting source inside box 1. The transmitted light from the hand can be detected by the light detector 3 and the near infrared rays spectrum is measured. After finishing it, the blood sugar of the subject is calculated by making use of the measuring lines that have been memorized by a hard disk in the computer and shown at the monitor.



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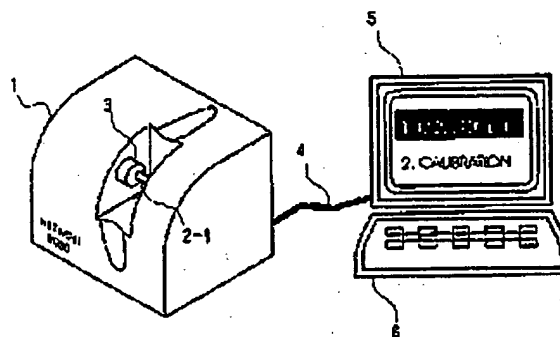
(54) 【発明の名称】 無侵襲血糖値計測装置

(57) 【要約】

【課題】 精度良く無侵襲で血糖値を測定する装置を提供する。

【解決手段】 波長が1500nm以上の近赤外光を隣り合った指の間の薄い水掻き状部分に照射し、隣り合った2本の指の位置を支持体で保持することによって安定に水掻き状部分の透過光を検出する。

図1



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